

Claims

We claim:

1. A skylight conversion kit for a light channeling system with a plate positioning segment proximate the ceiling having an open exterior roof end and an open interior ceiling end such as the duct work of a removed evaporative cooler extending between the roof and its room interior comprising:

- a. a ceiling mount with an opening defined by plate support structure adapted to removable secure over the open interior end of the light channeling system plate positioning segment proximate the ceiling to provide an open light channel between the roof and ceiling openings, said ceiling mount plate support structure adapted to removably hold over the ceiling mount opening and allow the lifting and turning on edge of
- b. one or more insulated stackable decorative plates sized and shaped to cover the ceiling mount opening when mounted on the plate support structure for addition or removal along a diagonal of the ceiling mount opening, whereby the plates are stacked on the ceiling mount plate support structure in a manner which transmits light there through into the interior of a room, and the number of plates is selected and added to provide the desired decorative and insulating properties,
- c. a roof mount with an opening defined by plate securing structure adapted to secure to the roof with its opening positioned over the exterior open roof end of the light channeling system, and seal thereto on the plate securing structure

- d. at least one insulated light transmitting plate sized to cover and seal the roof mount opening to allow exterior light to enter and pass through the light channeling system, while insulating the exterior end of the light channeling system opening and preventing heat transfer and the entrance of moisture, bugs, and dust.
- 2. A skylight conversion kit according to Claim 1, including a decorative trim finish associated with the ceiling mount to hide any evidence of the light channeling system ceiling entry when the ceiling mount is secured in position proximate the ceiling.
- 3. A skylight conversion kit according to Claim 1, including an insulating wrap adapted to secure about the exterior of the light channeling system and provide the desired insulation.
- 4. A skylight conversion kit according to Claim 1, wherein the insulated light transmitting plate covering the exterior end of the light channeling system is flat to minimize roof obstruction and wind noise.
- 5. A skylight conversion kit according to Claim 1, including a perimeter gasket system placed between and along the perimeter edges of a plurality of insulated stacked decorative plates to isolate them and absorb vibration to prevent accidental contact and vibration damage.
- 6. A skylight conversion kit according to Claim 4, wherein the decorative plates are patterned and colored to suit the preference of a user.

7. A skylight conversion kit according to Claim 5, wherein each decorative plate has different insulating properties and is employed in multiples to provide the desired insulating factor.
8. A skylight conversion kit according to Claim 1, wherein the light channeling system and the plate positioning segment are both rectangular tubes with square cross-sections, and the ceiling mount opening and decorative plates are square shaped so that the decorative plates may be lifted and turned on edge within the plate positioning segment for addition or removal through the diagonal opening of the ceiling mount.
9. A skylight conversion kit according to Claim 1, wherein the light channeling system is a cylindrical tube with round openings, and the plate positioning segment in communication with the cylindrical tube is a rectangular box with a square cross-section, and the ceiling mount opening and decorative plates are square shaped so that the decorative plates may be lifted and turned on edge within the rectangular box for removal or addition through the diagonal of the ceiling mount opening.
10. A skylight conversion kit according to Claim 1, wherein the light channeling system is insulated and flexible and includes an interior reflective surface.
11. A skylight conversion kit according to Claim 1, wherein the roof mount is adapted to tilt open the light transmitting plate on the roof in an open mode to allow air to pass through the light channeling system and into the interior of the room when the decorative plates are removed, and to close in a closed

mode to seal the light channeling system when the decorative plates are in place to provide an insulated skylight.

12. A skylight kit comprising:

- a. an insulated flexible light channeling open tube with interior reflective surfaces and interior and exterior open ends, the exterior end adapted to secure around a hole in a roof to transmit exterior light there through to the interior end associated with and in communication with a plate positioning chamber segment having one opening in communication with the tube and another opening adapted to secure around a hole in an interior ceiling to transmit light from the roof into the open tube through the positioning chamber segment and into a room interior,
- b. a ceiling mount with an opening in communication with the opening of the plate positioning segment and ceiling opening structured to removably secure over the plate positioning opening
- c. at least one insulated stackable decorative plate sized and shaped to removably secure over the ceiling mount opening in a cover mode to transmit light there through into the interior of a room, and remove by lifting the decorative plates on edge and shifting them within the positioning segment for removal through the ceiling mount opening in a removal mode, whereby the number of plates is selected and positioned to provide the desired decorative and insulating properties, and

- d. a roof mount with an opening adapted to secure to the roof such that the roof mount opening is positioned over the exterior open end of the light channeling system, and seals thereto
 - e. at least one insulated light transmitting plate sized to cover and seal the roof mount opening to allow exterior light to enter and pass through the light channeling system, while insulating the exterior end of the light channeling system opening to prevent heat transfer and the entrance of moisture, bugs, and dust.
13. A skylight kit according to Claim 12, wherein the ceiling mount has a decorative trim finish to hide any evidence of the light channeling system plate positioning segment entry when the ceiling mount is positioned proximate the ceiling.
14. A skylight kit according to Claim 1, wherein the light channeling system and the plate positioning segment are rectangular tubes with square cross-sections, and the ceiling mount and decorative plates are square shaped so that they may be lifted and turned on edge within the plate positioning segment for mounting and removal through the ceiling mount opening.
15. A method for converting swamp cooler hollow tubular ducting with one exterior end opening to the roof and the other interior end opening to the room interior into a skylight comprising:
- a. installing a plate positioning box with first and second openings such that its first opening leads into an interior positioning chamber and is in communication with the ducting room interior end and its second opening

is aligned proximate a ceiling opening such that its openings and interior are in communication with the swamp cooler ducting connecting the roof opening with the room interior opening to transmit light there through,

- b. installing a ceiling mount with an opening defined by support structure over the plate positioning box second end entering the room interior, said ceiling mount support structure adapted to hold over the ceiling mount opening at least one insulated decorative plate sized and shaped to cover the ceiling mount opening when placed on the support structure in a manner which allows their lifting and turning on edge within the positioning box for addition or removal through the diagonal of the opening of the ceiling mount,
- c. installing one or more insulated stackable decorative plates on the ceiling mount support structure in a manner which covers the ceiling mount opening and transmits light there through into the interior of a room; whereby the number of plates is selected and added to provide the desired decorative and insulating properties,
- d. placing a roof mount with an opening adapted to secure to the roof with its opening positioned over the exterior end of the evaporative cooling duct, and
- e. sealing to the roof mount at least one insulated light transmitting plate sized to cover and seal the roof mount opening to allow exterior light to enter and pass through the swamp cooler ducting, while insulating the

exterior end of the light channeling system to prevent heat transfer and the entrance of moisture, bugs, and dust.

16. A method for converting swamp cooler hollow tubular ducting into a skylight according to Claim 15, including insulating the hollow tubular ducting and plate positioning box with an insulation wrap.